

Claims

1. A high-pressure pump, in particular for a fuel injection system of an internal combustion engine, having a pump housing (10, 12, 14) in which a plurality of pump elements (16) are disposed, and by means of the pump elements (16), fluid is pumped at high pressure via a high-pressure conduit system to a common high-pressure connection (42), characterized in that the pump housing has a housing body (10) and, for each pump element (16), one housing cap (14) covering the pump element and joined to the housing body (10); and that the high-pressure conduit system has high-pressure bores (52, 54) extending without intersections in the housing body (10), which bores are joined together in the region of the transition from the housing body (10) to one of the housing caps (14a) or in one of the housing caps (14a) to form the common high-pressure connection (42).
2. The high-pressure pump of claim 1, characterized in that the common high-pressure connection (42) is disposed on the housing cap (14a).
3. The high-pressure pump of claim 1 or 2, characterized in that the high-pressure bores (52, 54) are joined together in the region of the transition from the housing body (10) to the housing cap (14a) and discharge into an indentation (60), made in a face (11) of the housing body (10) that is oriented toward the housing cap (14a), from which indentation a single bore (50) leads onward in the housing cap (14a) to the common high-pressure connection (42).
4. The high-pressure pump of claim 3, characterized in that the bottom (61) of the indentation (60) is embodied as at least approximately level; and that the orifices of the high-pressure bores (52, 54) at the bottom (61) of the indentation (60) are rounded.
5. The high-pressure pump of claim 1 or 2, characterized in that the high-pressure bores (52, 54) each discharge into a respective indentation (160), made in a face (11) of the housing

body (10) oriented toward the housing cap (14a); that separate extensions (152, 154) of the high-pressure bores (52, 54) extend within the housing cap (14a) and are joined together in the housing cap (14a) to form the common high- pressure connection (42).

6. The high-pressure pump of claim 5, characterized in that the bottom (161) of the indentation (160) is embodied as at least approximately level; and that the orifices of the high- pressure bores (52, 54) at the bottom (161) of the indentation (160) are rounded.

7. The high-pressure pump of one of claims 3 through 6, characterized in that one sealing element (62; 162) each is inserted into the indentation (60) and the indentations (160), respectively, for sealing off the transition from the housing body (10) to the housing cap (14a).

8. The high-pressure pump of one of the foregoing claims, characterized in that the housing body (10) comprises a metal of lesser strength than the housing cap (14).